

I/ We claim:

1. A surgical system comprising:

a membrane, the membrane further comprising:

an adhesive disposed on a first side of the membrane to adhere to a surgical site; and

a fold in the membrane to form an envelope, the first side of the membrane forming the exterior of the envelope;

a seal to substantially close the envelope; and

an implement disposed within the envelope.

2. A system according to claim 1, further comprising a removable cover on the adhesive.

3. A system according to claim 1, wherein the adhesive is disposed in the vicinity of the fold.

4. A system according to claim 1, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.

5. A system according to claim 1, further comprising a port communicating between the interior and the exterior of the envelope.

6. A system according to claim 5, wherein the port includes a removable seal.

7. A system according to claim 5, wherein the port includes an extension for introduction into an incision.
8. A system according to claim 5, wherein the port includes a seal cooperating with the membrane.
9. A system according to claim 5, wherein the port includes an opening in the membrane.
10. A system according to claim 5, wherein the port includes an area of the membrane intended for an incision.
11. A system according to claim 5, wherein the fold is proximate to the port.
12. A system according to claim 5, wherein the implement and port are configured to cooperate with each other.
13. A system according to claim 1, further comprising an opener to open the envelope,
14. A system according to claim 13, wherein the opener is configured to allow the envelope to be substantially opened.
15. A system according to claim 13, wherein the opener is configured to allow the membrane to be substantially flat.
16. A system according to claim 13, wherein the opener includes a tear seal.
17. A system according to claim 13, wherein the opener opens the seal.

18. A system according to claim 1, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.

19. A system according to claim 1, wherein the membrane is flexible or rigid.

20. A system according to claim 1, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.

21. A system according to claim 1, wherein the implement is disposable.

22. A system according to claim 1, wherein the implement is reusable.

23. A system according to claim 1, wherein the implement includes plastic parts.

24. A system according to claim 1, wherein the implement includes durable parts.

25. A surgical system comprising:

a membrane, the membrane further comprising:

an adhesive disposed on a first side of the membrane to adhere to a surgical site;

a fold in the membrane to form an envelope, the first side of the membrane forming the exterior of the envelope; and

a seal to substantially close the envelope.

26. A system according to claim 25, further comprising a removable cover on the adhesive.

27. A system according to claim 25, wherein the adhesive is disposed in the vicinity of the fold.

✓ 28. A system according to claim 25, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.

29. A system according to claim 25, further comprising a port communicating between an interior and the exterior of the envelope.

30. A system according to claim 29, wherein the port includes a removable seal.

31. A system according to claim 29, wherein the port includes an extension for introduction into an incision.

32. A system according to claim 29, wherein the port includes a seal cooperating with the membrane.

33. A system according to claim 29, wherein the port includes an opening in the membrane.

34. A system according to claim 29, wherein the port includes an area of the membrane intended for an incision.

35. A system according to claim 29, wherein the fold is proximate to the port.

36. A system according to claim 29, wherein the port is configured to cooperate with a surgical implement.
37. A system according to claim 25, further comprising an opener to open the envelope.
38. A system according to claim 37, wherein the opener is configured to allow the envelope to be substantially opened.
39. A system according to claim 37, wherein the opener is configured to allow the membrane to be substantially flat.
40. A system according to claim 37, wherein the opener includes a tear seal.
41. A system according to claim 37, wherein the opener opens the seal.
42. A system according to claim 25, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
43. A system according to claim 25, wherein the membrane is flexible or rigid.
44. A system according to claim 25, further comprising a surgical implement within the envelope.
45. A system according to claim 44, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.

46. A system according to claim 44, wherein the implement is disposable.
47. A system according to claim 44, wherein the implement is reusable.
48. A system according to claim 44, wherein the implement includes plastic parts.
49. A system according to claim 44, wherein the implement includes durable parts.
50. A surgical system comprising:
- a membrane, the membrane including a fold to form an envelope, a first side of the membrane forming the exterior of the envelope;
 - an area of the membrane configured to provide an opening in the membrane;
 - a seal to substantially close the envelope; and
 - a port disposed proximate to the fold and communicating between the interior and the exterior of the envelope, the port including an extension for insertion into an incision.
51. A system according to claim 50, further comprising adhesive cooperating with the membrane.
52. A system according to claim 51, further comprising a removable cover on the adhesive.
53. A system according to claim 51, wherein the adhesive is disposed in the vicinity of the fold.

54. A system according to claim 51, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.
55. A system according to claim 50, wherein the port includes a removable seal.
56. A system according to claim 50, wherein the port includes a seal cooperating with the membrane.
57. A system according to claim 50, wherein the port includes an opening in the membrane.
58. A system according to claim 50, further comprising a surgical implement within the envelope.
59. A system according to claim 58, wherein the implement and port are configured to cooperate with each other.
60. A system according to claim 58, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.
61. A system according to claim 58, wherein the implement is disposable.
62. A system according to claim 58, wherein the implement is reusable.
63. A system according to claim 58, wherein the implement includes plastic parts.



64. A system according to claim 58, wherein the implement includes durable parts.
65. A system according to claim 50, further comprising an opener to open the envelope.
66. A system according to claim 65, wherein the opener is configured to allow the envelope to be substantially opened.
67. A system according to claim 65, wherein the opener is configured to allow the membrane to be substantially flat.
68. A system according to claim 65, wherein the opener includes a tear seal.
69. A system according to claim 65, wherein the opener opens the seal.
70. A system according to claim 50, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
71. A system according to claim 50, wherein the membrane is flexible or rigid.
72. A surgical system comprising:
a liquid water impermeable membrane configured to cover an incision site;
a medical grade adhesive disposed on a first side of the membrane to adhere the membrane to skin surrounding the incision site;

a port communicating between the first side of the membrane and a second side of the membrane, wherein the port is configured to permit a medical device to pass therebetween; and

a removable microbe-impermeable seal attached to the port.

73. The surgical system of claim 72, further comprising a fold in the membrane to form an envelope, wherein the first side of the membrane forms an exterior surface of the envelope.

74. The surgical system of claim 73, further comprising a seal in the envelope.

75. The surgical system of claim 74, further comprising an opener for the seal.

76. The surgical system of claim 73, further comprising a surgical instrument disposed within the envelope.

77. The surgical system of claim 73, further comprising a medical device disposed within the envelope.

78. The surgical system of claim 77, wherein the medical device is a cell containment device.

79. The surgical system of claim 77, wherein the medical device is a containment apparatus for a cell containment device.

80. The surgical system of claim 72, further comprising a removable cover on the adhesive.

81. The surgical system of claim 72, further comprising an extension on the port for placement in an incision.

82. The surgical system of claim 72, wherein the membrane includes a medical grade polymeric material.

83. The surgical system of claim 82, wherein the polymeric material is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.

84. A method to manufacture a surgical apparatus comprising:
forming an envelope with a membrane, the envelope configured to hold a surgical implement;
disposing an adhesive on an exterior of the envelope, the adhesive to adhere to a surgical site;
placing surgical implements in the envelope; and
sealing the envelope.

85. A method according to claim 84, further comprising disposing a removable cover on the adhesive.

86. A method according to claim 84, further comprising sterilizing the apparatus.

87. A method to manufacture a surgical apparatus comprising:
forming an envelope with a membrane, the envelope configured to hold a surgical implement, the membrane configured with a seal region to seal the envelope; and

disposing an adhesive on an exterior of the envelope, the adhesive to adhere to a surgical site.

88. A method according to claim 87, further comprising placing a surgical implement into the envelope.

89. A method according to claim 87, further comprising sealing the envelope.

90. A method according to claim 87, further comprising disposing a removable cover on the adhesive.

91. A method according to claim 87, further comprising sterilizing the apparatus.

92. A method to manufacture a surgical apparatus comprising:
placing surgical implements in an envelope that is formed with a membrane, the membrane including an adhesive disposed on an exterior of the envelope to adhere to a surgical site; and
sealing the envelope.

93. A method according to claim 92, further comprising disposing a removable cover on the adhesive.

94. A method according to claim 92, further comprising sterilizing the apparatus.

95. A method to manufacture a surgical apparatus comprising:
providing a liquid water impermeable membrane;

disposing a medical grade adhesive on a first side of the membrane the adhesive to adhere the membrane to skin surrounding an incision site;

configuring a port in the membrane, the port communicating between the first side of the membrane and a second side of the membrane, wherein the port is configured to permit a medical device to pass therethrough; and

configuring a removable microbe-impermeable seal attached to the port.

96. A method according to claim 95, further comprising creating an envelope by folding the membrane, wherein the first side forms an exterior of the envelope.

97. A method according to claim 96, further comprising sealing the envelope.

98. A method according to claim 96, further comprising disposing a surgical instrument within the envelope.

99. A method according to claim 96, further comprising disposing a medical device within the envelope.

100. A method according to claim 99, wherein the medical device is a cell containment device.

101. A method according to claim 99, wherein the medical device is a containment apparatus for a cell containment device.

102. A method according to claim 95, further comprising disposing a removable cover on the adhesive.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
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